An Inaugural Esay Consideration Inflammation for the degree Saped March

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The following observations on Englipelatric Inflammation, are respectfully submitted to the examinations of the Ministerial Property of the University of Ornnsylvania, accompanied by the sencere actions of the author for the benefit he has received, from their instructions.

Philadelphia fan 4th

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Ensighilatous Inflammation

This variety of inflammation appears to be a disease of very ancient dates for it is described by Hippur ratio, and so far as my information extends, by most of the ancient willow.

the ancient writers Is Capspelas in the clap Paperia, and adva Exambiemata, of his mostlerical Arrangement, but as it is almost always a conditutional affections altended with focus ormaling or as it has many of the symptoms, and is found generally to gield to sometian winded, measures, it is now generally admitted, that it men properly belongs to the order Phlymasia. To Culter humself acknowledges, that ait sams doubt full if this disease be properly in nosology suparaled from the Melymasia and that in their realization

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d fled describe le fuefech en weslege separets a ble bleg mass. End illas en bleve grabere they are very similar. Numerous opinious have been at different times offered, respecting the nature and origin of Engripelas; the most popular of which was that of Hippocrates, who supposed the disease to define whon a congestion of the bile. This theory was adopted by Galen, and many of the ancient physicians. On the restoration of learning in the fifteenth century, the Galenie system was the only one known to the Physicians of the time, and as no one thought proper to hazard his reputation, by opposing what was then considered almost in the light of revel-- ation, this system, and consequently the views to which it hed, respecting the subject we are now considering, forevailed without opposition,

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Milhough the system of Bracelous was received by many
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the Edward continued he more the discovered this is contained the Hook the thronic

duct, and the receptacle of the chyle, about the middle of the seventeenthe century sealed the fate of this once celebrated system. Teveral other systems have been proposed, which lead to different theories of Engripulas, but they only tend to show how widely wise men may differ in open ion, and how plausible a theory may be made to appear, which future discoveries prove to be, void of almost every thing but absurdity, Ot was the opinion of Tipot, and many other humo--aul pathologists, that Enysipelas depended upon an acrid, and commonly a billious humour, diffused through the mass of the blood, and Ir Gullen ap, pears to have entertained a simelar opinion, for he says, I suppose the Ensipelas to defend whom a matter generated within the body, which is in inveguence of fever, thrown out upon the surface of the body, 29 I do not presume to oppose the opinion of the ven -crable Willen, but candour obliges me to acknowledge,

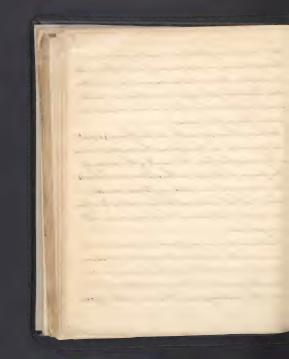
hick ful sable Villey hat whenever to

that I cannot comprehend, how a matter generated in the system, can in consequence of fever, be thrown upon the surface. I have always considered the fever atter ding Enyspelas as the effect of virilation, as a mere

symptom of the disease, but it is here evidently con - sidered the exceling cause! We have then, (agreeably to this theory,) a mat ber generated in the system; this matter produces a fever; and this fever, the result of the action of the foreign substance on the system, now becomes the active agent in expelling its own cause! what it is that first excites this matter to action,

and causes it to produce the fever, we are left to conjecture.

The disease may be supposed to defend whom a noxious matter present in the system, producing a peculiar susceptibility, of a particular agas or tifue. The individual being now exposed to coldyou some other exceling cause, this susceptible organ



becomes irritated, the blood is intercepted in its progress, the whole vascular system becomes invol ved, producing that derangement of action calls fever, together with the other symptoms of the disease. What is the moders operande of this remote cause, I shall not pretend to determine; for this would require a minute acquaintance with the structive and functions of the body, and a thorough knowledge of the laws by which it is governed, and the changes to which it is subject, and this knowledge can only be stained by years of careful practice and observation. How shall I venture an opinion respecting the precise origin of this umole cause; but I cannot agree with In Gullen that it is generated in the system; for if a foreign matter be ac nevated in the system, it must be the result of a morbid action, and consequently, is not the remote cause of the disease.

13.

Erysipelas may be defined a disease of febrile action, always affecting some external part, with heat red ness and swelling, and in some instances with vefsication, ulceration, and gangrene. It often comes on suddenly, commencing with a languid, distressed feeling, pain in the back and head, nausea and vomeling, shortness of breath, paleness of the face and extremities, accompanied with a livid appearance under the eyes, and these symptoms are soon followed by a sense of cold's hiverings After the chill has continued for some time, a fever comes on, which in many instances, is accompanied with considerable delineum. The skin of the affected part now assumes a hight searlet colour, which entirely disappears when pressure is made whom it, but immediately returns when the pressure is discontinued, this colour soon changes to a livid red, intersper ced with patches of a yellowish linge.

Note to the second 7_1-1-2

doon after the redness comes on, a smooth glossy tumour with an irregular base, appears, and spreads gradually to the adjacent parts. This turnows is elastic, without linsion or hardness, and communicales on pressure a crackling sensation, or specues of crepiles, as if the skin had been burnt. When the face is affected, the patient experiences a pucking, or burning sensation, in the part, with -out much very accete paint; but when the disease is situated on the extremities, the frain is in some instances, very severe. After the swelling is completely formed, small vesicles similar to those produced by a sould, appear to a greater or Less extent, on different parts of the diseased surface; these generally appear in clusters, and discharge an acrid, serous fluid, which on some instances, excorates the parts which it touches. They sometimes degen--crate into troubles ome wheers, which continue to

----. . . ~ discharge for some time after the febrile symptims have subsided.

(In very server cases the resides early afume a gangernous appearance; and the part falls into a state of mortification; at the same time the constitutional symptoms increase; come comes on, and the falient is frequently destayed in a few days.

token the disease terminates favourably the fover and swelling gradually subside, the vesicles dry up, and become covered by a boson seaf and in a few days the cuticle scales of from the whole surface of the tumour, leaving the part covered with a new cuticle, and extremely tender;

When we consider the similarity existing, between many of the symptoms of Obligmon and Eryspelas it does not appear surprising, that me, should occasionally be mistaken,

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po the other desease they are both characterised by "unusual redrigh heat, swelling and pain "and our frequently accompanied by similar constitutional symptoms. The two diseases may in invarial however, by close observation, be easily distinquished.

In Migmen, the skin of the affected part is of a criming red colour, whelst in Erzeipelas, it is at fust of a bright scarlet, but som changes leadened rad a gellowsh colour, and this rednish disappears on pressure.

In Phlymon the inflammation is commonly situated in the cellular membrane, is accompanied by an elevated and circumscribed turnous and the effection or secretion, which takes place is generally of a purelent character, and contained in one circumscribed cavety;

In Experiels, the usual seat of the inflammation is perhaps, the rete mucosum or entire berathe

acompanying tumow is diffused, and but slight by clevated, and attended with a thin and acrid effusion, which is contained in a number of

vesicles.

Although every person is liable to be attacked with Enysipelas, it more frequently attacks persons of a sanguine or pleathoric habit, than those of a delicate constitution; the debauchee is more subject to it than the temperate man, and it more frequently occurs to young, than to old persons. Agreeably to Dr. Buchan, females in a state of foregnancy are more subject to the disease, than when in an unimpregnated condition. It must frequently happens in autiem'n spring, the changes of lemperature during those seasons, being frequent and sudden; and the few cases that I have. had an oportunity of observing, have generally assumed many of the symploms of the disease; which happened

at the time to be most prevalent.



The above facts prove beyond a doubt, that this disease is intimately connected, with the state of the constitution. Thus when two persons are exposed to pre--cisely the same exciling causes, one is attacked with the disease, whilst the other does not experi -ence the slightest inconvenience. For the same neason, if an intemperate person meet with a local injury, (as a wound or contrision) he is in conser -quence, frequently, attacked, with enysipelatous inflammation, whilst a similar injury, occurring to a person whose constitution is not impaired by intemperance or debauch, is followed by common phlegmonous inflammation.

There are marly exciting causes, which, in conjunction with the existing state of the constitution, evidently contribute to the production of the disease, and though, in most instances it is practicable to discover these causes, we are in some cases, obliged to be content with a knowledge, that the disease



does exist. The principal of these exciting causes, as mentioned by different authors, are 1st Exposure to cold or damp air, particularly when in an unusual persperation. 2 nd Being long exposed to the direct rays of the sun, the heat of a fire, or remaining too long in a warm bath. 3rd. Brolent passions or affections of the mind as anger, grief, fright telle 4th. Exposive to the action of one of the vegeta ble, animal, or mineral poisons; I have seen one case, apparently brought on, by the poison of the common swamp sumach. 5 th. Local enjuries as wounds and contusions, wounds of the scalp, even in the most perfect constitutions, are peculiarly liable to termi--mate in this variety of inflamation! 6th. Constitution, suppression of wine, or the interruption of any discharge that has been long



continued; as that from Hemovrhoids, yours &. The disease does not pursue one uniform course in every instance, but like most other diseases, it is subject to various modifications; this has induced authors to divide it into different species. These are however, only varieties of the same disease, foroduced by the particular circumstances, in which the par tient may be placed; but as these varieties require different seems proper, that they should be described under different heads. The division which I believe is now generally received is that of Pearson, who has divided the disease inte aute, Edmatoris, and Malignant or Gangunous. The deute Emphass, which I believe is synonymous with Emplular Oldermonder, occurs much more frequently than the other forms of the disease. It generally affects persons of a sanguine or plethour habit, attack ing the face, or one of the extremities. In the former case, the disease commences suddenly with cold



thevering, followed by fover, as discribed page 6, the pulse becomes full, frequent and hard, and on the seemed day the tengue is covered with a while crust, the fatient complains of dull pains in the head and back of the neck extending in some instances to the back and beins, great thirst, loss of appetets, general seemed attended with a languid peling, and a certificial disposition to sleep.

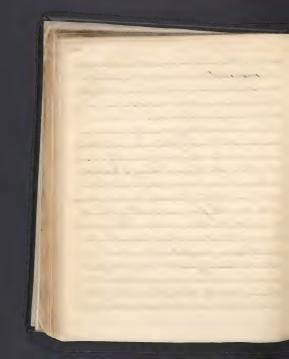
The swelling generally appears in the second of

The swelling generally appears on the second or there day, commencing at the side of the newther upper eyelid, or far back on the cheek, and spreads over the side of the face, and frequently to the neek, the sar, and the scalp.

The face is now very much dispersed, the mouth is thrown to one seds, and the excluse of the affected side are so much swillow, as ontirely to close the eye. Generally about the fourth or fifth say but in

some instances as early as the second, the swelling is completely famed, and vericles arise in different

parts of it. These vesicles are smaller than those atten--ding erypiteles of the extremities; they generally, burst spontaneously about the second day after they arise, leaving the execualed surface, covered with an irregular black scab. The fever and swelling generally continue as -companied at times by delirium, until the res--wees burst, when they both gradually subside, the colour of the turnour changes to a deeper gellow, or brown, and in a day or two the cu ticle is completely separated. In some instances, at the time the fever and swelling begin to subside, the parotid and sub-maxillary glands become inflamed, and this inflammation pe--quently ends in painful suppuration. When the disease affects both sides of the face, it generally commences on one, and extends to the other so gradually, that, by the time the inflammation has arrived at its height on this side, it



has entirely subsided in that originally affected. Abhen the acute Experieles affects the lower extremitres, it commences with mearly the same constitu tional symptoms as when it is scaled in the Jace; the redness and swelling do not appear quite so carly in the disease, and have a more glofy ap - pearance. The humour is commonly situated on the face part of the leg, extending from the anche and sides of the foot, almost to the kneel On addition to the burning sensation felt in the variety just described, this tumour is accompanied by a most exercisating pain, especially during, the night, and the sensebility, is so great, that the slightest pressure cannot be made on the part, without occasioning pain. The vesicles are larger, and contain more fluid, than those situated on the face, and are very liable (especially, in persons of intemperate habits) to degenerate into initable ulcers, The febrile symptoms often continue for some



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time after the swelling has subsided, whilst in other cases, the glands of the groin are secondarily affected with swelling and pain, but these generally sub side without surgical interference. When the hand and arm are affected, the constitutional symptoms, do not deviate materially from those already described; there is perhaps, in some instances, more nausea and vomiting. The pain is generally first felt in one of the fingers, a the thumb, accompanied by swelling and redness; these gradually extend to the back of the hand, the wrest, and in some instances almost to the ofbown The pain is very severe during the night, but in some measure subsides loward morning. The disease in this instance is more tedious than when it affects the face; being sometimes lin a twelve days in arriving at its height. How to free I have described the disease only as termi inating in vesication; but it prequently happens,



that the inflammation extends to the cellular, menbrane, and terminales in a tedious, and very painful suppuration; the impure pus which is secreted, in -jecting the adjacent cellular membrane, and sepanaling the muscles from eachother; the injury thus produced is sometimes very extensive, and efat this stage, the disease be neglected and suf--fered to proceed, hectic fever, and all its unplear sand consequences, will allmost certainly be produced.

The Edematoris Enjoyedes, is much less frequently met with in private practice than the acute, but it sometimes prevails extensively, in crowded hospitals, appearing as an epidemie. In large and populous cities, it has also in some instances prevailed to a

considerable extent.

It is very liable to affect old persons of delicate con - stitutions, or persons whose constitutions have been weakened by intemperance or disease,



and generally appears on the face, the breast, or ex buemities. In the commencement of this variety, the symp -toms are neither so severe nor so distinct, as those of the acute erypipelas. It commences with a sense of languor, debility, and sickness, but these symp. toms are not generally followed by a distinct chill. The tumour has a lived red or yellow colour, and has a polished surface; it progresses more grad--ually, spreads to a greater extent, and is attended with less heat, than the swelling that occurs in acute Enysipelas. The vesicles which arise on the surface are small, and but slightly elevated. The constitutional symptoms at this stage of the disease, are very, clarming; the tonque becomes covered with a white, or yellowish coat, the pulse is weak, frequent and often irregular, and the strength of the patient, very much defressed. doon after the disease commences, an unpleasant



darling pain is felt in the head, extending down the neck; at the disease proceed, this pain steadily increases until it becomes most exercical inglitelest
delicium comes on, which in severe cases is feltow
by come, the repels of the eyes become injected with
red blood, the pupil in the latter stages is much
dilated, with complete insensibility to bight and
the patient is distribute, generally about the muth
day if the disease but in some instances not until the livelith or fourteenth.

tohen the disease terminates favourably, the deliceum and from subside in a very gradual manner, and it is sometimes many weeks, before the palint recovers his strength.

The Maynest a immune Enriche the carrely last desoribed, servally occurs in prospetals a thickly pepulated cities, and altacks possens of delicate constitutions and those that have been long labouring undersome other disease! He progress is more rapid than either

of the preceding varieties In its commencement, if may resemble other the acute, or ordematous Erysipelas, but in general the symptoms more closely resemble the latter: The swelling exhibits a dark red colour, is soft and flacid, and the vesicles which arise on its surface, are filled with a bloody serum! The bases of these vesicles soon ussume a gangunous appearance, the pulse is small, weak, and irregular, and longue is covered with a hown fur. I'm cases which burninate fatally, a delirum comes on on the early stages of the disease, and this as in the ordemalous, variety, is followed in a few days by come and death. When the constitution is enabled to withstand the violence of the attack, the gangrene which appears at the base of the vesicles, frequently, spreads to the

adjacent parts particularly the cellular members, producing extensive Houghing and deep wheretions. The enjury is sometimes so extensive; that



long stups of dead, and delached, cultular numbiane, my be drawn from under the integements, beaving extensive servess; a continual variation is thus kept up for several weeks, and if a judicious plan of treatment be not resuled to heetic fover comes on, and the patient dies as it were from the sumadary effects of the disease!

When Expepular prevails of an epidemic, the swelling, in by for a majnity of easy is located in some one particular part, but this is different, in different chedenical; there, sometimes we have begineless of the face; at other times it is confined to the exhaunties, and in some of the late periodical pournals we have had accounts of epidemic try-sipelas, confined almost exclusively is the face disposed to reduce a forgetiles, for months after the severity of the disease has subsided. A case very satisfactorily illustrating, this position, and which



I had an opportunity of observing occured in the practice of may Preceptor, and valued friend, Du fon: Johencer of Moorestown Ma Jersey, In the latter part of January, 1827, Mr. L. after exposure to the poison of the Swamp Sumach, was attacked with acute crysipelas of the face. By a shiet antiphlogistic plan of heatment, the disease was subdued in a few days, but not until some vesicles had arisen, on the tumour; he contin - ued to enjoy good health, until the latter part of April, when after a day of unusual exposure and patigue, he was allacked in precisely the same manner as before; he was immediately thed about 3xvj, and freely purged by Epsow Salts; clothe think spread with fresh land, were applied over the tu mour; on the following day the swelling began to subside, and m'aday, a two more, had entirely disappeared. Tince April, this gentleman has had two returns of the disease; one of these attacks a state a date of the

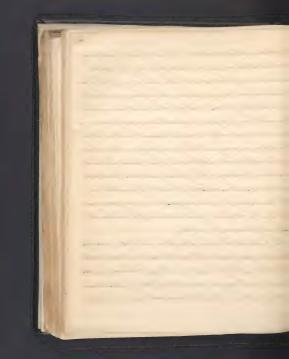
commenced on the 26th of July, the other on the 28th of october; they were both mild, and readily, yielded to the treatment just mentioned; each attack was less severe, than the one immediately precedong it The of the most interesting features of this case was, the distinct periodical form which it af--sumed, three months (very nearly) having in every instance clapsed, between the attacks. With respect to the treatment of Erysipelas, a qual diversity of openion, has always prevailed among practitioners, some contending that it was Jewiely, an inflammalory disease, requiring an-- siphlogistic treatment; others that it was a malig-· nant disease, and should be managed accordingly. This diversity of openion, appears to have arising from a neglect to distinguish between the diffenent varieties, or stages of Engerpelas, or from a propensity which many Physicians have popered,

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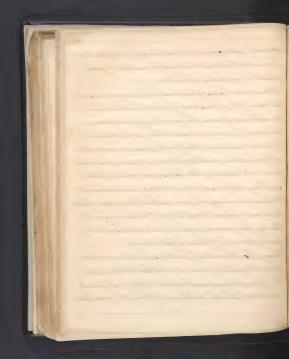
to prescribe for the name, rather than the symptoms, of a disease When we consider the different, and undeed opposite symptoms, which altend the dif-- ferent varieties of Errys spelas, or the same variety in its different stages, it must be evident, that they will require very different breakment. In the treatment of acute Erysipelas, the indication which first naturally presents itself, is to dimenish or subdue, the inflammatory actions then the pulse is full and hard, (and this is almost invariably the case) venescetion is always profities, and it is frequent by necessary, to repeat this operation, to a very considerable extent. With respect to the quantity of blood to be drawn however, we must not be governed by the feelse alone, but with reference to the constitution, age, and general habits of the patient, to the situation in which he may be placed, and to the fore -vailing bype of diseases After the bleeding, a gentle ometic may be given to evacuate the stomach, and



produce a determination to the surface; this determine mation to the surface, should be hipt who through the whole course of the disease, by the exhibition of diaphoretic medicines, as Vartarized Antimony either alone a combined with Mhate of Mash or Calonel, the Pulois Doveri, or Taline Draught; these to be given in small doses, and repealed every how or two, agreeably to circumstances. When the heatand irritation, are very great, the Lover's powder will be found a very appropriate disphoretie; the openem which it contains, lending to allay this irretation. Some mild cathartie, such as calomel, followed by Epson balts or Ol Ricini, may be given as occasion may require, and during the operation of this medicine, the disphoretic should, of course, be mitted. The patients chamber should be kept at a moderate temperature, and well ventilated, his food should be of the lightest kind, consisting of lapioce, panede, nice W. with small quantities of ripe fruits. Temon-- ade, and other acidulated and cooling drinks, may



be freely indulged in Animal food of every descripdion, and all spirituous, and formented bequers, should be positively forbidden. Humerous local applications have been proposed for the cure of Enysipelas, each of which has had many advocates and opposers; the nascotic applications, were conderned by many, because they were supposed to produce gangiene; the spirituous as increasing the inflammation; and the deaginous, aqueous, and emd Level, as protracting the disease, and causing the swelling to spread; it was indeed reduced almost to an axiom among physicians, that is no grease should touch an erysipelations tumour, 90 and consequently the dry farinaceous, or absorbent articles, were almost the only topical applications. These false theoretical notions, have however, been obliged to yield, to practice and observation, and the different oleaginous preparations, are at present almost exclusively employed . of these, the principal



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are the more wish outment, and common land. The former of these articles was just used in 1817 by Der Little, and Dean, of Epambers burg, Par and the example of these gentlemen, has been very generally followed. It has however been contended, that the remedy is exclusively indebted for its efficacy, to the land that enters into its composition. Jam not about to decide as to the comparative mer its of these remedies; I can only say, I have certain - by seen thein both used with the most decided advantage; in the present state of the question however I should undoubtedly give the pref-- Jerence to the mercurial ointment. To prevent the spreading of the inflammationsa blister has in some instances been applied over the turnous, with the most happy effect to a general rule, a Chister applied to an eryschelatous turnous will require considerably longer to produce its effect, than when applied under ordinary circumstances,

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inasmuch as the morbed action of the part, must at ways be subdued, before the specific action of the blister, can be induced. The the Philadelphia Medical and Physical journal for November 1825 page 139-40 Dr. Howell, of thoodberry New Jersey, speaks in the highest terms of the decoction of canthacides in spls of hur pentine, as a topical application, in Engitelas. He directs lint, or soft muslin, to be thoroughly wet with the saturated decoclion, detuted with an equal quantity of sweet oil, and bound on the inflamed surface, and the dressing to be renewed in four or Six hours. Speaking of this remedy the Doctor says in no case that I now recollect, where it was thowardly ap--plied, has it failed to arrest the disease, in twenty four hours ? If such be the fact (and the character of De H. is sufficient to wouch for its authenticity) this is certainly an invaluable article. But how shall we reconcile this remedy with the fact, that the



mucurial centment, prepared as it sometimes is with

olum terebinthina, is invariably injurious when ap-

- pelied to an oxysepelatous turnour?

If, notwithstanding our exertions, the disease runs on to suppuration, as described page 12, a free incision should be made in the most depending part of the

inmour, and the pus evacuated; from pressure should now be instituted on the part, so as to place the op--posite surfaces of the sinus in contact, and thus give

them an opportunity to unite, by the adhesive inplanemations of the disease has been suffered to pro--ceed until great debitely, or heelie fever, is produced,

the strength of the patient must be supported by

a yenerous diet, pooler, wine, bark te.

Most of the authors who have divided Englipelas into its different varieties, condern blood letting in the udemalous form. I am by no means prepared to prove that this verdict is not correct, especially as my opportunities of observation in this variety have



been extremely limited; but so far as the deservation of one very distinctly marked ease, will warrant an openion, I am strongly inclined to believe, that in the very first stages, of the disease, venesection caw -tiously practised, would prove not only a safe, but a vern useful remedy. It rauly however becomes the duty of the Physician to bleed, for as the symptoms in the commencement are not very allarming to an inexperienced observer, he is not called on, until the disease has made some progneps, and then it would doubtless be impropper. Although at this stage venescelion would be imprope for, the mild purgative medicines may be safely administered, but the greatest care should be taken, that they do not operate los freely, and thus exhaust the patient Such diaphoretic medicines as allay pain, and varitation, at the same time that they exercise their specific influence, may be given agreeably to circumstances.



Of any symptoms of effection of the brain be observed blasters should be immediately applied on the back of the neck, and behind the east, and outs a duchs to the temples; if there do not afford selief blisters should also be applied to the extremities, and blasters filled with ice, to the top of the head. When the system appears very much exhausted, and the tumour becomes flacied, and apumes a ganground the tumour becomes flacied, and apumes a ganground the tumour becomes, the back of conchous, with wine, sulphate of quincine, campher, carbonate of amonomia to, should be freely administred, and a blister, or technithmate decoder of eauthorides, thould be applied to the lumour.

Inasmuch as the gang renous variety generally occurs in impaired constitutions, the necessity reprefacily of venescotion, well be comparatively case, where are however some cases, attended with a full, beard, pulse, hat show, and very symptom of incedenate inflammatory action, at the same time



that the tumour shows irresistable evidences of ap proaching gangrene, Under these circumstances the lancet should undoubtedly be resorted to, with a view to lessen the inordinate febrile action, which may be considered, the most fruitful source of the gangrene. The bleeding should however be practised with the greatest caution, taking small quantities at a lime, and frequently repealing the openation, carefully, watching the pulse, the strength, and the counterwance of the patient; moder - ate purging should at the same time be resorted to, and all heating, or stimulating, food avoided; in short, the antiphlogistic plan of treatment should be practised. But, when instead of the above symptoms, we find a small and very frequent pulse, haggard or depressed countenance, great prostration of strength, and the tumour becoming flacid, of a purple co-

-low, and covered with visicles filled with a bloody sorum, a plan of weatment directly the



reverse of that just haid should mow be develed to sup front the system, and stop the progrep of the malifecation. Bank and other towers, should be freely administered, the dest should coused of the most subutions and easily digitated which, with porter and winer But as a pure stemulant, with perfect and winer But as a pure stemulant, nothing appeared one move appropriate, than the carbonate of ammonias prepared as develed in the thorapeutics of a thapmen, and administered in quantities, appropriate to the wagency of the synftems.

Openin in small doses frequently repeated will be found over useful to allay fram and writation, and whose the newes affected, camphin might perhaps be advantagiously combined with it. It a local application to arrest the foregrep of the meetification, a blister should be applied directly over the terrory and extending to some destance on the sound parts adjoining; with terebrithinate

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decoction should be used as before directed; it is to this, and the preceding variety of Erysipelas, that this ar--ticle appears to me, peculiarly applicable. After the progress of the mortification has been arrested, emdlient poultices may be applied, to facilitate the separation of the stoughts. When from the ma-- tipication attacking the cellular membrane, extensive sinceses are formed under the integerments, mild poultices should be applied, until the sloughs are completely detached. Throughout this process, and indeed, until the sinuses have entirely heated, it will generally be found necessary to support the system by a generous diet, wine, porter to. As soon as the sloughs are completely detached, they should be removed, and form and equable pressure made on the part, by means of compress and roler, or adhesive straps. If after persevering in this plan for a considerable time it is found insufficient, some moderately

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stimulating liquid, such as wine, tincture of myork, n even a weak solution of corosive sublimate, may be injected into the sinus, or a silver probe dipper in Mitrie acid, as practised by In Dorsey, may be passed over the surface of the sinus, after which the pressure should be renewed. If all this be found insufficient, and the sinus be not too deep and extensive, it should be laid open from end to end, and the cavity freely ex-- posed to the action of the air; the surface should now be covered with dry link, which will pro--duce slight viritation, and in a short time heal-- they granulations, will shoot up from the bottom.

be muched into the senies or is there transing theology by the seller.